Docket No.: VAS-5041DIV2

Amendment dated September 8, 2003

Responsive to Office Action of May 7, 2003

## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

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## **Listing of claims:**

Please cancel claims 1-80.

81. (New) An internally stented graft convertible between a compact configuration having a first diameter and an expanded configuration having a second, larger diameter, comprising:

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at least one stent formed in a generally cylindrical shape having an outer surface and a hollow bore extending longitudinally therethrough, the stent being convertible between a compact configuration having a first diameter and an expanded configuration

having a second, larger diameter; and

a flexible, porous, biocompatible tubular PTFE graft co-axially disposed in contact with and adhered to the outer surface of the stent, the tubular PTFE graft being formed of a plurality of concentric layers of helically-wound PTFE tape.

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- 82. (New) The internally stented graft of claim 81, further including a polymer coating on the stent to facilitate adherence of the stent to the tubular PTFE graft.
- 83. (New) The internally stented graft of claim 82, wherein the polymer coating is PTFE.

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84. (New) The internally stented graft of claim 82, wherein the polymer coating is selected from the group consisting of:

polytetrafluoroethylene(PTFE),

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fluorinated ethylene propylene (FEP),
polytetrafluoroethylene-perfluoroalkyl vinyl ether copolymer (PFA),
polyvinyl chloride (PVC),
polypropylene (PP),
polyethylene terephthalate (PET), and
polyuinylidene fluoride (PVDF).

85. (New) The internally stented graft of claim 81, further including melted polymer particles deposited between the stent and the tubular PTFE graft to facilitate adherence of the stent to the tubular PTFE graft.

86. (New) The internally stented graft of claim 85, wherein the polymer particles are PTFE.

- 87. (New) The internally stented graft of claim 81, wherein the PTFE tape is expanded and completely sintered.
  - 88. (New) The internally stented graft of claim 81, wherein the PTFE tape has a width of less than about one inch.
  - 89. (New) The internally stented graft of claim 88, wherein there are between about 6-8 revolutions per longitudinal inch of PTFE tape around the stent.
- 90. (New) The internally stented graft of claim 81, wherein the PTFE tape is helically wound in two directions.

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91. (New) An internally stented graft convertible between a compact configuration having a first diameter and an expanded configuration having a second, larger diameter, comprising:

at least one stent formed in a generally cylindrical shape having an outer surface and a hollow bore extending longitudinally therethrough, the stent being convertible between a compact configuration having a first diameter and an expanded configuration having a second, larger diameter; and

a flexible, porous, biocompatible tubular PTFE graft co-axially disposed in contact with and adhered to the outer surface of the stent, the tubular PTFE graft having been expanded and completely sintered prior to assembly with the stent.

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- 92. (New) The internally stented graft of claim 91, further including a polymer coating on the stent to facilitate adherence of the stent to the tubular PTFE graft.
- 15 93. (New) The internally stented graft of claim 92, wherein the polymer coating is PTFE.
  - 94. (New) The internally stented graft of claim 92, wherein the polymer coating is selected from the group consisting of:

20 polytetrafluoroethylene(PTFE),

fluorinated ethylene propylene (FEP),

polytetrafluoroethylene-perfluoroalkyl vinyl ether copolymer (PFA),

polyvinyl chloride (PVC),

polypropylene (PP),

polyethylene terephthalate (PET), and

polyuinylidene fluoride (PVDF).

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95. (New) The internally stented graft of claim 91, further including melted polymer particles deposited between the stent and the tubular PTFE graft to facilitate adherence of the stent to the tubular PTFE graft.

- 5 96. (New) The internally stented graft of claim 95, wherein the polymer particles are PTFE.
  - 97. (New) The internally stented graft of claim 91, wherein the the tubular PTFE graft is formed of a plurality of concentric layers of helically-wound PTFE tape having a width of less than about one inch.
    - 98. (New) The internally stented graft of claim 97, wherein there are between about 6-8 revolutions per longitudinal inch of PTFE tape around the stent.
- 15 99. (New) The internally stented graft of claim 97, wherein the PTFE tape is helically wound in two directions.
  - 100. (New) An internally stented graft convertible between a compact configuration having a first diameter and an expanded configuration having a second, larger diameter, comprising:

at least one stent formed in a generally cylindrical shape having an outer surface and a hollow bore extending longitudinally therethrough, the stent being convertible between a compact configuration having a first diameter and an expanded configuration having a second, larger diameter;

a flexible, porous, biocompatible tubular PTFE graft co-axially disposed in contact with and adhered to the outer surface of the stent; and

a polymer coating on the stent to facilitate adherence of the stent to the tubular PTFE graft.

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101. (New) The internally stented graft of claim 100, wherein the polymer coating is PTFE.

102. (New) The internally stented graft of claim 100, wherein the polymer coating is selected from the group consisting of:

polytetrafluoroethylene(PTFE),
fluorinated ethylene propylene (FEP),
polytetrafluoroethylene-perfluoroalkyl vinyl ether copolymer (PFA),
polyvinyl chloride (PVC),
polypropylene (PP),

polyethylene terephthalate (PET), and polyuinylidene fluoride (PVDF).

- 15 103. (New) The internally stented graft of claim 100, wherein the the tubular PTFE graft is formed of a plurality of concentric layers of helically-wound PTFE tape having a width of less than about one inch.
- 104. (New) The internally stented graft of claim 103, wherein there are between about 6-20 8 revolutions per longitudinal inch of PTFE tape around the stent.
  - 105. (New) The internally stented graft of claim 103, wherein the PTFE tape is helically wound in two directions.

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